

## Abstract

### **METHOD AND APPARATUS FOR UNIFORM LINEAL MOTION BLUR ESTIMATION USING MULTIPLE EXPOSURES**

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10 A method and apparatus (9) for estimating the blur parameters of blurred images ( $g_1, g_2$ ) are disclosed. The apparatus (9) has one or more image sensors (10) for capturing the blurred images ( $g_1, g_2$ ), a plurality of correlators (20, 30) for performing autocorrelation of the blurred image ( $g_1$ ) and cross-correlation between the two images ( $g_1, g_2$ ) respectively, and an error function calculator (40) for evaluating an error function over all possible displacements using the results from the correlators (20, 30). The apparatus (9) further includes an extreme locator (50) for finding the displacement with the minimum value for the error function.